

# Modern Plastics

Editorial Index, Volume 48

January through December 1971

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## How to use this index

This Modern Plastics Index is prepared as a cross-referenced guide to general, engineering, and technical features. It is arranged by materials, application areas, processing equipment and methods, and other pertinent subdivisions. In addition, many subjects are individually cross-referenced by one or more key words.

- If you want to locate in one segment of the index all the important published information on, for example, **Epoxies**, **Building Applications**, or **Blow Molding**, locate the appropriate bold face headings, under which you will find the entire list.
- If you are looking for a specific article dealing with a plastics material, a production method, and/or an application, it will be found cross-referenced under one or all of these areas.
- If only the general theme of an article is known, you can quickly locate it by checking through the headings relating to that theme.
- For added convenience in reference, the following keys in indexed items indicate the nature of the indexed article or the section of the magazine in which it appears: (pl) = Plasticscope; (nm) = New Materials; (eng) = Engineering Feature; (tech) = Technical Feature; (ma) = Machinery and Equipment; (tr) = Technical Review. Unkeyed items are of a more general nature.

**Note:** Every issue of Modern Plastics carries a number of timely news articles which are not considered as reference material and are not included in this Index. These include many Plasticscope announcements, Company News items, a calendar of Coming Events, Manufacturers' Literature, and Patents.



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(ma): Apr 128

Single-shot 220-lb. moldings for big

industrial parts: Sep 53

Small precision parts, cuts costs of:

Dec 28

Switch-gating doubles mold capacity,

K-M (pl): Jul 76

Thermosets, runnerless molds for (pl):

Apr 118

Viscosity measurement in mold (eng):

Nov 62

Ionomers

High-solid dispersions in water available

(tr): Nov 116

Isocyanates — see Urethanes

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New materials (nm): Mar 33, 36, Aug 22,

Oct 51

Output boosted by polyester-based

system: Dec 28

Presses, Tyler multilayered (ma): Oct 180

PVC/RP industrial equipment (pl):

Jan 138

Refrigerator exterior: Aug 46

Walls, growing use as: Feb 45

Lighting fixtures

Acrylic lens for mercury (pl): Jul 90

Show highlights acrylics (pl): Jan 140

Lubricants, report on internal: Sep 70

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#### Machinery and equipment

ABS cutter, Photon laser (ma): Aug 94

Bag slitting/emptying system, Stewart-

Glapat (ma): Oct 189

Bag unloader, Littleford (ma): Dec 80

Band saw for rigid and semi-rigid foams,

LeBrecht (ma): Jun 88

Bin discharge gate, Vibra Screw (ma):

Jan 130

Bin dischargers, Acrlon (ma): Oct 188

Blister pack, I-L form-fill-seal unit for

(ma): Dec 78

Blow molding machine, Bekum fast-

cycle (ma): Jul 78

Bottles up to 12,000 per hr., ADS for

(pl): Dec 72

B&W with adiabatic extruders (ma):

Mar 98

Hayssen single-head (ma): Jun 86

Kunststoffe exhibition of: Nov 54

PIS programmed parison extrusion

(ma): Mar 100

Sidel compacts (ma): Jan 126

Solid-state controlled, Bekum (ma):

May 92

Uniloy for lightweight containers

(ma): May 96, Jun 78

USPM vertical extrusion (ma): Feb 84

Waldron-Hartig (ma): Jan 126

W&P scrap remaker (pl): May 88

Blown film line, Bielloni heavy-duty

(ma): Feb 84

Bottle-cap liner, RF (ma): Mar 98

Bottle-leak detector, AF (ma): Mar 102

Buying trends: Jan 6, Feb 6, Mar 6,

Apr 6, 81, May 6, Jun 6, Jul 6, 72,

Aug 6, Sep 6, Oct 6, Nov 6, Dec 6

Cable-joining injection molding unit,

USUCC portable (ma): Sep 108

Chippers, PEE rotary (ma): Aug 94

Coating machines — see under Coating

and coatings

Compression and transfer molding —

see under separate heading

Container lids, TIC in-line from

extruding to printing: Aug 56

Containers, fluid-bed molding system

for: Jan 90

Cooling — see main heading Heating

and cooling equipment

Control equipment — see under separate

heading

Conveyor for blow-molded bottles,

Uniloy (ma): Oct 188

Die wipers, IMS injection-molder air-

operated (ma): Jun 88

Discharge treaters, Corona (ma): Mar 100

Dry blender, SW&C (ma): May 96

Dry bulk hopper scale, DM&M (ma):

Jan 128

Dryers, Bowen product fluid-bed type

(ma): Dec 78

Deltech process air (ma): Oct 180

Gala pellet (ma): Oct 184

Rainville powder (ma): Oct 180

Encapsulator, Automachine (ma):

Mar 98

Injection-molder, Hillard (ma):

Nov 74

Injection unit for press, Hull (ma):

Aug 86

Transfer-press, Bipel (ma): Jun 84

Clifton hydraulic (ma): Nov 74

Extruder dies attachable to screen

changers, Sudbury (ma): Oct 189

Extruder filtration, FDI new unit for

continuous (ma): Nov 72

Extruders, Black Clawson (ma): Mar 98

Compounding pipe, Anger (ma):

Jun 84

Dual-extrusion system, MPM (ma):

Nov 76

Egan vertical (ma): Aug 88

Extrude rigid profiles (ma): Jun 86

Foamed (pl): Aug 84

High HDPE-sheet output, Davis Standard 6-in. for: Sep 52  
 Johnson 6-in.: *Ibid*  
 NRM 6-in.: *Ibid*  
 Welex 4-1/2-in.: *Ibid*  
 Hydraulically-driven, Extruders Inc. (pl): Jan 120  
 Kunststoffe exhibition of: Nov 54  
 Leesona textile yarn system (ma): Jan 126  
 Nelmor adjustable-plane: *Ibid*  
 NRM unitized (ma): Apr 124  
 PIS for PS foam sheet (pl): May 86  
 Sterling compacts (ma): Dec 76  
 Twin-screw, Cincinnati Milacron (pl): Aug 82  
 W&P with interchangeable screw components (ma): May 92  
 Extruder screen changer, Curtis high-capacity (ma): Jun 88  
 Heat-sensitive resins, PII usable for (ma): Jun 88  
 Midland-Ross automatic (ma): Nov 74  
 Extrusion-die cleaning system, Techne (ma): Aug 92  
 Feeder belt with electronic weighing, B.I.F. (ma): Oct 188  
 Film bonder, Roberts (ma): Mar 100  
 Film casting, BC chill-roll (ma): Sep 108  
**Foam-molding machines**, European developments in (pl): Nov 80  
 Fellows converter for injection molders (ma): Jun 86  
 Hoover for large smooth-surface foam parts (pl): Jun 78  
 Koehring structural with shot sizes to 38 lb. (ma): Apr 124  
 Shot sizes to 100 lb. (ma): Sep 108  
 Kunststoffe exhibition of new: Nov 52  
 PMC high-speed thermoformer (pl): Mar 92, 98  
 PMC rapid EPS packaging (ma): Apr 124  
 W&P for structural (ma): Mar 98  
 Foams-splitting machine, LeBrecht bandknife (ma): Aug 94  
 Granulators, auger-fed IMS (ma): Jan 128  
 Beloit (ma): Aug 94  
 Auger-fed (ma): Jan 128  
 Dual-purpose, Abbe (ma): Jan 126  
 PMC shorty (ma): Apr 130  
 Scrap, R&A Plastics (ma): Feb 86  
 Soundproofed, G&W (ma): Aug 94  
 R&A (ma): Jan 128  
 Grinder, Beloit recycling (ma): Jul 80  
 FMB hot-melt portable (ma): Jul 80  
**Heating** — *see main heading Heating and cooling equipment*  
 Hopper-dryer dewpoint and air-flow readouts, T-M (ma): Oct 184  
 Hopper loaders, Conair 1000 lb./hr. (ma): Dec 80  
 Foremost automatic vacuum (ma): Apr 128  
 Nelmor automatic (ma): Dec 80  
 Thoreson-McCosh multistation (ma): Apr 128  
 Hot knife, GE cordless (ma): Feb 86  
 Hot-stamper, Ackerman-Gould roll-leaf film (ma): Nov 76  
 Acromark solid-state (ma): Jul 84  
 DMC with automatic pressure adjustment (ma): Nov 76  
 Howmet (ma): Jul 84  
 Kensol-Olsenmark (ma): Jul 84, Sep 110  
 Large areas on tubes, Acromark for (ma): Nov 76  
 PDC foil (ma): Jul 84

Thermarker (ma): Sep 112  
 Wagner Engraving (ma): Oct 184  
 Humidity monitor, AAA on-line (ma): Sep 114  
 Ice point cell for reference temperature, Dynatech (ma): Oct 188  
 Imprinter, Ackerman-Gould roll-leaf (ma): Sep 112  
**Injection machines**, Avnet compact (ma): Jan 126  
 Babcock & Wilcox for bottles (ma): Mar 98  
 BAM two-stage (ma): Jul 78  
 Bekum 1800 HDPE bottles (2 fl.oz.)/hr. (pl): Oct 170  
 BIP punched key-plate sequence programming (ma): Apr 128  
 Blow-moulder converter, Rucker (pl): Nov 82  
 Brass Teledynamic (ma): Dec 76  
 Cincinnati Milacron high-speed (ma): Apr 126  
 Danson 25-ton (ma): Dec 78  
 Ex-Cell-O two-piece base (ma): Apr 128  
 Farrel with large daylight opening (ma): Oct 176  
 Fast-clamping 1000-ton, USI-Clearing: *Ibid*  
 Fellows with solid-state logic controls: *Ibid*  
 Gilttech (ma): Feb 84  
 Hillard manual (ma): Jun 86  
 Horizontal thermoset, Stokes (ma): Sep 108  
 Impco 2500-ton (ma): Apr 126  
 Koehring for large elastomer parts (pl): Dec 70  
 Kunststoffe exhibition of new: Nov 53  
 Large modular, Beloit (ma): Jun 84  
 Litton potentiometer-controlled (ma): Apr 124  
 Lombard 110-oz. (ma): Mar 98  
 Morgan bench-type (ma): Jul 80  
 Moslo direct-drive (ma): Jul 78  
 MPM 6.7 -and-10.5-oz. (ma): Apr 124  
 Newbury, 5.5-oz. (ma): Mar 98  
 Two-color (ma): Feb 84  
 New developments in: Sep 44  
 Premixes, American Cyanamid for (pl): Apr 120  
 Farrel: *Ibid*  
 George Seidl KG: *Ibid*  
 Lewis Welding & Engineering: *Ibid*  
 Litton: *Ibid*  
 Recycling, W&P (ma): Aug 86  
 Retractable tie bars, CM 3000-ton with (pl): Mar 94  
 Farrel 2000-ton: *Ibid*  
 Impco 2500-ton: *Ibid*  
 Rose compact (ma): Jan 126  
 Solid-state controls, Danson with (ma): Oct 180  
 Solid-state timer, CCC with (ma): Dec 78  
 Small parts to 1-oz., Avnet for (ma): Nov 76  
 Stokes 300-ton with molds 24 by 36" (ma): May 92  
 Molds 20 by 29-3/4" in 200-ton (ma): Dec 76  
 Van Dorn (pl): Jun 100  
 Hydraulic clamp (ma): Aug 86  
 Long clamp stroke (ma): Sep 108  
 Vertical, ESGO small (ma): Sep 108  
 Wheaton Industries (ma): Nov 74  
 Injection molding press, Dake air-operated (ma): Aug 88  
 Injection-mold pressure sensor, Control Process (ma): Feb 82  
 Injection press, Hillard (ma): Jul 80

RPE screw-fed with solid-state controls (ma): May 96  
 Installations, recent: Jan 6, Feb 6, Mar 6, Apr 6, May 6, Jun 6, Jul 6  
 Insulator Admiral urethane foam (ma): Jul 80  
 Machine loader, Butler (ma): Dec 80  
 Melt-pressure gage, Microdot extruder (ma): Aug 88  
 Metal detector/separator, Erico (ma): Dec 80  
 Foremost (ma): Oct 188  
**Metering, mixing, dispensing machines** — *see under separate heading*  
 Mold finishing tool, D-M-E electric hand (ma): Jun 88  
 Mold-pressure indicator and transducer, GSE (ma): Mar 100  
 New developments, important: Apr 100  
 Pelletizer, WPC water ring (ma): Apr 130  
 Pellet screeners, Simpson (ma): Aug 94  
 Pipe/tube fabricators, Gatto (ma): Aug 94  
 Plasticator bimetallic-lined barrels, Bernex (pl): Jan 122  
 Stoddy (pl): Sep 104  
 Wheeler (pl): Jan 122  
 Xaloy: *Ibid*  
 Pouching liquids, PMC form-fill-seal unit for (ma): Dec 78  
 Powder compaction system, PEE (ma): Feb 86  
 Precutter for large scrap, IMS (ma): Jul 80  
 Production recorder, V-R (ma): Mar 102  
 PS-bead vacuum pre-expander, S-K (pl): Sep 102  
 PVC film printer, Halley four-color (ma): Sep 110  
 Resistance thermometers, Sostman platinum (ma): May 92  
 Roll salvager, Parkinson (ma): Feb 86  
 Rotating mold frame, MUDP (ma): Oct 189  
**Rotational molding** — *see under separate heading*  
 Runner separator, Beloit automatic (ma): Feb 86  
 Sales 1970, record drop in: Apr 81  
 Scrap, Beloit recycling system for runner (ma): Jul 80  
 Sheet dicer, Envirotech (ma): Jan 128  
**Sheet forming machines**, Engineering Development (ma): Jul 78  
 Hoffco for containers (pl): May 86  
 Johnson "black box" (pl): Feb 78  
 Koehring (ma): Jun 86  
 Kunststoffe exhibition of new: Nov 56  
 M-R industrial (ma): Aug 86  
 PIS for wide-mouthed containers (pl): May 86  
 Plasti-Vac industrial (ma): Dec 78  
 PMC high-speed (pl): Mar 92  
 Ridat roll-fed for webs to 51" wide (ma): Aug 88  
 Rotary, I.P.D. (ma): Dec 76  
 Solid-state controls, CMD with (ma): Oct 180  
 Web-overheating control, PMC with (ma): Oct 176  
 Silk-screen printer, MTS (ma): Nov 76  
 Softening-point tester, EME (ma): Sep 114  
 Static detector, Herbert (ma): Sep 112  
 Takeoff, Bouigny air-driven winder (ma): Jan 132  
 Coiler/boxer, C&K: *Ibid*  
 Extrusion, Gatto: *Ibid*  
 Molded parts, Rampe: *Ibid*  
 Pipe, Gatto (ma): Nov 78  
 Slitter/rewinder Dusenbery (ma): Nov 78

Stanford (ma): Jan 130  
 Static eliminator, Lyttle (ma):  
 Jan 132  
 3M: *Ibid*  
 Web, Lembo high-speed (ma):  
 Jan 130  
 Parkinson tension control (ma):  
 Jan 132

Temperature sensor, Alnor (ma): Feb 82  
 Barber-Colman thermocouple  
 connector (ma): Nov 76  
 Gulton thermocouple (ma): Mar 100  
 Harrell bayonet type (ma): Feb 84  
 Honeywell multipoint pressure/  
 temperature (ma): Aug 88  
 Infrared noncontacting, Barnes (ma):  
 Sep 112  
 Wahl (ma): Feb 82  
 TE digital (ma): Mar 102  
 High-input impedance 6-point  
 indicator (ma): Aug 88

**Testing equipment** — *see under Test equipment and methods*

Thermoformer clamp for sheet-size  
 changes, P-V (ma): Jul 80  
 Welders, FSC spin (ma): Apr 130  
 Kamweld, hot-air (ma): Jun 88  
 Three-temperature (ma): Feb 86  
 MG for wide-pipe non-solvent section  
 unions (ma): Jun 88  
 Sealomatic electronic (ma): Feb 86  
 Spin, Fastener Systems (ma):  
 Apr 130  
 Ultrasonic automated, Branson scan  
 (pl): Oct 170  
 Cavitron: *Ibid*  
 Delta: *Ibid*  
 Dukane: *Ibid*  
 Pelorex 6000 aerosol bottles/hr.:  
*Ibid*  
 Sonics & Materials (ma): Apr 130  
 Ultrasonics Systems (pl): Oct 170  
 W&S automatic solvent for couplings  
 (ma): Jun 88

**Machining**  
 Theory of RP (tr): Jun 132

**Marine applications**  
 Buoys, Navy recommends plastic (tr):  
 Dec 114  
 Marina undersea fuel pipes/land tanks of  
 epoxy/glass: Jun 57

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 Agriculture, 1970: Jan 56, 73  
 Appliances, 1970: Jan 51, 73  
 Automotive, 1970: Jan 49  
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 Building, 1970: Jan 46, 73  
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 Forecast, 1971-80: Oct 81  
 Furniture, 1970: Jan 44, 74  
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 Rain gutters, RP: Feb 55  
 Recreation, 1970: Jan 55  
 Reinforced plastics (pl): Apr 20  
 Styrenics, markets for new: May 46  
 Toys, 1970: Jan 54, 76  
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 Vinyls: Apr 86

**Market trends** — *see specific materials and applications; also Plastics industry*

**Materials** — *see also specific materials*  
 Acoustical properties of 67 plastics (tr):  
 Oct 244

Capacity expansion outlook 1971-1980:  
 Oct 93  
 Consumption survey: Jan 60, 65  
 Dielectrics, polyester-based (nm): Feb 26  
 Engineering thermoplastic, new: Jul 55  
 Furfuryl alcohol resins (tr): Aug 122  
 Markets outlook 1971-1980,  
 compounds: Oct 102  
 Engineering resins: Oct 98  
 Thermosets: Oct 106  
 Volume thermoplastics: Oct 94  
 Modified kaolin upgrades properties (pl):  
 Oct 28  
 New plastics, properties of (tr): Nov 116  
 Perforating pins (nm): Jan 28  
 Peroxyester activity altered by chemicals  
 (tech): Nov 66  
 Polyarylsulfones, new (nm): Sep 27  
 Polybutadienes, Lithene Q (nm): Mar 30  
 Polycondensate research, USSR (tr):  
 Aug 122  
 Price changes in (pl): Jan 140  
 Production 1969-70 (tr): Jun 132  
 Strapping, non-woven (nm): Feb 26  
 Styrenics, markets for new: May 46  
 Thermoplastic PTMT used for pump  
 housings (pl): Nov 89  
 Trade designations, new edition of (tr):  
 Jun 132

**Materials handling**

Bag slitting/emptying system, Stewart-  
 Glapart (ma): Oct 189  
 Bag unloader, Littleford (ma): Dec 80  
 Bin discharge gate, Vibra Screw (ma):  
 Jan 130  
 Bin dischargers, Acrison (ma): Oct 188  
 Conveyor for blow-molded bottles,  
 Uniloy (ma): Oct 188  
 Dispensers, purge agent for (pl): Nov 28  
 Dry bulk hopper scale, DM&M (ma):  
 Jan 128  
 Feeder belt/electronic weighing, B.I.F.  
 (ma): Oct 188  
 Hopper dryers, PMC automatic (ma):  
 Dec 78  
 Hopper loaders, Conair 1000 lb./hr.  
 (ma): Dec 80  
 Foremost automatic vacuum (ma):  
 Apr 128  
 Nelmor automatic (ma): Dec 80  
 Thoreson-McCosh multistation (ma):  
 Apr 128  
 Machine loader, Butler (ma): Dec 80  
 Metal detector/sePARATOR, Erico (ma):  
 Dec 80  
 Foremost (ma): Oct 188  
 Pellet elutriator, CCC (ma): Dec 78  
 Systems, profits in: Jan 78

**Medical applications**

Implants, progress in (tr): Jul 106  
 Markets review, 1970: Jan 57  
 Sutures of PP approved (pl): Jun 98

**Melamine**  
 Consumption pattern, 1970: Jan 72

**Metering, mixing, dispensing equipment**

Additive feeder, GSC low-rate (ma):  
 May 96  
 Applicator/mixer, DeVilbiss portable  
 (ma): May 96  
 Batch content weighing/control, Raven  
 (nm): Jan 130  
 Bin discharge gate, VSI (ma): Jan 130  
 Color blender, Whitlock (ma): Sep 110  
 Density measuring, Tecam (ma): Mar 102  
 Dew-point monitor, Rainville (ma):  
 Mar 102  
 Dispenser/mixer, Ashland (ma): Sep 110  
 PDC polyester resin (ma): Aug 92  
 Dispensers, Funken gravimetric (ma):  
 Dec 82  
 Pyles hot-melt (ma): Jul 84

Rigid urethane foam, Fluidyne portable  
 (ma): Aug 92  
 Urethane elastomer metering, NAU  
 electronic (ma): Jul 84  
 Vina (ma): Dec 82  
 Water-extended polyester, AMS for  
 (ma): Jul 84  
 Dry blender, SW&C (ma): May 96  
 Feeder, GSC low-rate additive (ma):  
 May 96  
 Glass-spray meter, Republic (ma):  
 Jan 130  
 Mixer, ECC epoxy compounds (ma):  
 Dec 82  
 IMS batch-type high-intensity (ma):  
 Jan 128  
 Pyles adjustable-ration (ma): Nov 78  
 PVC continuous, W&P (ma): Jan 130  
 Plastisol-producing systems, Day  
 complete (ma): Aug 88  
 Premixes, in-line compounding: Aug 73  
 Thermal conductivity, Anacon (ma):  
 Mar 102  
 Urethane foam insulating machine,  
 Admiral (ma): Jul 80  
 Urethane foam machines, Urematic two-  
 component (ma): Sep 110  
 Urethane system, Hull (ma): Nov 78

**Methyl methacrylate**

Acrylic protects football pros (pl):  
 Mar 112  
 Church windows: Mar 42  
 Consumption pattern, 1970: Jan 60, 66  
 Lens, mercury-light (pl): Jul 90  
 New materials in (nm): Feb 18, 20,  
 Mar 33, Dec 20  
 Sawdust/acrylic building material (pl):  
 Oct 198

**Military applications**

Markets review, 1970: Jan 58  
 Missile casing, glass/epoxy (pl): Sep 120  
 Polysulfone battery cells: Apr 56  
 Rifle barrel jacket, steel/epoxy (pl):  
 Sep 120

**Molding** — *see also specific types*

Containers, fluid-bed system for: Jan 90  
 Inserts, new line of (nm): May 30  
 Moisture effect on thermoset flow (eng):  
 Nov 60  
 Mold protector, R&A (ma): Jun 86  
 Mold-pressure monitoring (eng): Dec 58  
 Structural foam furniture parts: Apr 72  
 Urethane coating interlocks in mold:  
 Jul 30

**Molding compounds** — *see also specific materials*

Moisture effect on flow of thermoset  
 (eng): Nov 60

**Molds**

Concrete prototypes, large (pl): Aug 84  
 Copper gauze cleans (nm): Sep 32  
 Epoxy tooling for urethanes (pl): Aug 98  
 Finishing tool, D-M-E electric hand (ma):  
 Jun 88  
 Large compression and injection: Aug 42  
 A-1 Tool Corp: Aug 44  
 Akromold Inc.: *Ibid*  
 Alliance Mold: *Ibid*  
 Atols Tool and Mold: *Ibid*  
 Binder Tool and Mold: *Ibid*  
 Capitol Engineering: *Ibid*  
 Efficient Industries: Aug 42  
 Ferriotti Bros. Inc.: Aug 44  
 Indiana Die Cast Tool: *Ibid*

International Tools Ltd.: *Ibid*  
Modern Pattern & Plastics: *Ibid*  
J.B. Rath Co. Inc.: *Ibid*  
R.O. Schulz Co.: Aug 42  
Snider Mold Co. Inc.: Aug 44  
Special Machine & Engineering: *Ibid*  
J.G. Tilp Inc.: *Ibid*  
Protector, R&A (ma): Jun 86  
Rotating frame for, MUDP (ma): Oct 189

**Monofilaments — see Fibers**

**N**

**Nylons**

Consumption pattern, 1970: Jan 61, 67  
Core for RP boat panels (pl): Nov 89  
Filaments, -6/12 moves into (pl): Apr 24  
Electroless plating of (pl): Apr 120  
New materials (nm): Mar 27, Jul 22, Sep 22, Nov 22  
Nylon-12, new distributor (nm): May 27  
Nylon/acetal plug for auto drain holes: Sep 34  
Tubing, carpet plant (nm): Jan 36

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**Office equipment**

Desks of polyester/glass: Mar 40

**Optical**

Goggles protect against laser beams (tr): May 134

**Organic peroxides, report on:** Sep 66

**Ovens**

Shrink-film, OSI high-speed (ma): Oct 180

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**Packaging applications — see also Bottles**  
Blister pack, 1-L form-fill-seal unit for (ma): Dec 78  
Blister, PVC saves cost of: Jan 83  
Cans, 4500/hr. quart-size (pl): Mar 92  
Chemicals, PVAL for (tr): Dec 114  
Containers, calendered: Feb 30  
Coated PE (pl): Jul 88  
Disposal data of new material for (pl): May 16  
Made from flat sheet (pl): Aug 82  
Multicavity injection machine for, Wheaton (ma): Nov 74  
Screen printers for large, DMC (ma): Oct 184  
Small, Wheaton injection machine for (ma): Nov 74  
Wide-mouthed, new thermoform process for (pl): May 86  
Container tax passed, N.Y.C. plastics (pl): Aug 10, Nov 18  
Anti-tax court case won by SPI et al (pl): Dec 18  
Drum liners, PVC (pl): Sep 126  
Formed PS consumption: Apr 90  
Gasoline can standards (tr): Mar 130  
Lids, TIC in-line extruder, former, printer, recycler for: Aug 56  
Markets review, 1970: Jan 47, 75  
Growth outlook, 1971-1980: Oct 86  
Meat and spirits, new tests to speed PVC for: Sep 54  
National Packaging show, report on (pl): Jun 96  
Pails for 2-unit products (pl): Jan 138  
Pouching liquids, PMC form-fill-seal unit for (ma): Dec 78  
Produce shelf life, film for (tr): Nov 116

Proposed container taxes (pl): May 14  
Shipments, cushioning for (nm): May 29  
TPX-coated paperboard tested for frozen foods (pl): Nov 89

**Paints and painting**

Electrostatic painting of plastics auto parts (pl): Feb 76  
Hand-operated sprayer, Nordson (ma): Oct 184  
Release/accepting agents (nm): Jan 28  
Striper, Paasche automatic (ma): Oct 184

**Pallets**

Market picture: Mar 64  
Processing approaches: *Ibid*  
Processing methods, comparison of economics of: Apr 74

**Paper**

Market trends: May 49  
PVC Japanese (nm): Mar 33

**Phenolics**

Consumption pattern, 1970: Jan 61, 67  
Injection-molding cycle times, reducing (eng): Oct 132  
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Records, PVC growth in: Apr 88

**Pigments — see Colors and coloring**

**Pipe, hose, tubes**  
Corrugated for soil conservation: Feb 48  
Fabricators to 24-in. diameter, Gatto (ma): Aug 94

High-joint-strength HDPE pipe (pl): May 102

High-strength pipe, glass/epoxy over PVC (pl): Jul 88

PE pipe 36" carries waste (pl): Mar 111

Pipe, growth in use of: Jan 88

Pipe manufacture, cold blends cut costs of PVC (pl): Jul 72

Pipe price-fixing denied (pl): Oct 198

Pipe symposium, UK (tr): Apr 178

PVC pipe poses profit problems: Nov 44

Self-sealing PVC pipe (pl): Oct 206

Takeoff unit, Gatto (ma): Nov 78

Truck-boom tubing, pultrusion (pl): Mar 94

Undersea epoxy/glass fuel pipes: Jun 57

Worn iron gas mains renewed with PE pipe (pl): Aug 96

**Plasticizers**

Air pollution eliminator: Jun 48

"Permanent" polyesters that are easier to process: Jul 42

Price movements in phthalate (pl): May 12

Report on: Sep 58

**Plastics industry**

Black firms grow (pl): May 103

Challenges of this decade: Oct 69

Engineering thermoplastics, growth in: Feb 51

European companies' expansion in U.S. (pl): Jun 18

Germany, technology advances in (tr): Sep 164

Hook into profits: Apr 65

Japanese, report on: Jan 93

Licensing profits and pitfalls: Oct 126

Managing to profit (Editorial): Jul 35

Market drop-outs (pl): May 16

Markets review, 1970: Jan 44, 73

Mergers & acquisitions (pl):

Jan 140, 145, Feb 92, 140,

May 103, Jun 98, Jul 86,

Aug 96, Sep 104, 123, Oct 194,

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Nation's new economic policy, effect of (pl): Oct 18

Nomenclature standardization, ISO (tr): Aug 122

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Pipe price-fixing denied (pl): Oct 198

Processing wages (pl): Jul 20

Review of 1970, booklet on (tr): May 134

Sales and profits, 1971 vs. 1970 (pl): Sep 16

End users': *Ibid*

Manufacturers': *Ibid*

SPI Canada goes independent (pl): Nov 87

Training program (pl): Jul 88

U.S.S.R. plastics survey (tr): Mar 130

Wholesale prices, trends in: *Ibid*  
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**Plating**

Complete systems offered (pl): Sep 123  
Electroless nickel bath (nm): Jun 26  
Electroless for nylons (pl): Apr 120

Electroplating pretreatment, GE (pl): Dec 72

Maximum adhesion on crystalline PP (tr): May 134

Metallizing system, Paasche (ma): Jul 84

Tungsten wire, GE (nm): Sep 32

New ABS grades for (nm): Apr 30

Platable polyphenylene oxide goes commercial: May 61

Rejects, liquid stripper for (nm): Sep 32

PP platability test (pl): Mar 92

**Plumbing**

Walls for house pipes, RP: Apr 54

**Pollution control — see also Waste disposal**

Fluidized-bed dryer, Rockwell (ma): Jun 90

Hopper dryer, FME desiccant-type compact (ma): Jun 90

Incinerator-boiler powers heat/air conditioning (pl): Jul 76

Incinerator, plastics no problem in Chicago (pl): Feb 92

Oil separator, RP sheet in: Jul 30

Plasticizer vapors cut 93.3%: Jun 48

**Polyacetics — see Acetals**

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